GP360 Mobile Welfare Unit

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Section 1. Introduction

Description
The GP360 Groundhog Mobile Welfare Unit is a road towable welfare unit suitable for up to 6 personnel.
This self contained unit has a toilet/washroom, a drying room and a kitchen/restroom.
Electrical supply can be taken either from a mains hook up or from the built-in generator (available in diesel, petrol or LPG versions).
Its unique design means that raising and lowering the body requires little effort from the operator and takes just 3 minutes from disconnecting to being usable.

Guidance
The information and instructions included in this manual are provided to help you get the best possible service from your Groundhog.
To ensure that The Groundhog is used safely and responsibly, we strongly recommend that this manual is read by all users prior to its operation, and that the recommendations are followed at all times.
GenQuip plc operate a policy of constant improvement and reserve the right to change specifications without notice.

Section 2. General Safety

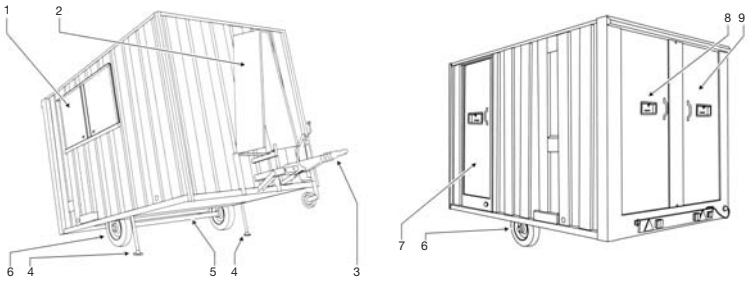
Safety
Before using this equipment and to avoid personal injury, carefully read and understand these instructions. If there is anything you do not understand, DO NOT use this equipment, contact the supplier for advice.
Make sure you are aware of all safety requirements and that this equipment is suitable for the location.
When raising or lowering the unit, the area must be cordoned off to create a safe zone from the general public and bystanders.
This equipment must not be moved, set up, used or dismantled by persons who are under the influence of alcohol or drugs. Do not use this equipment if you are tired or unwell.
You MUST perform a risk assessment before siting this equipment to ensure your safety and the safety of others.
Wear suitable personal protective equipment whenever making adjustments to the unit.
Do not wear loose jewellery or clothing that may get in the way or become trapped in the mechanism.
Carefully inspect the Groundhog before towing or before use. If there is any doubt about its condition, DO NOT CONTINUE.
This equipment may only be used on smooth level ground, which is able to bear its weight and its load.

Risk Assessment
It is the user's responsibility to carry out a full risk assessment before using the Groundhog. The risk assessment should establish a safe zone including (but not limited to) ground, side and overhead hazards such as power supply and communication cables, lighting systems, drainage systems and other services.
Ensure that the ground on which the unit is being used is smooth, level and capable of withstanding the Groundhogs' weight plus its load.
If permission is required, obtain it before use.

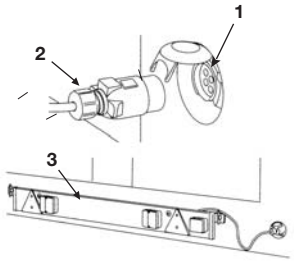
Preparation for towing
Before towing the Groundhog, you must ensure that the fresh water, waste water and drinking water containers are emptied.
Switch the generator OFF.
Empty the toilet and wash hand basin reservoirs.
Pack away all utensils, cups, plates etc.
Lock all doors, window and protective shutter.
Switch off and secure all gas bottles.

Work area preparation
Clear the ground area, where the Groundhog is to be used, of obstructions, anything that may puncture the tyres and similar items. Once the unit is in the work area, use barriers and tape to create a safe zone. Keep bystanders and unauthorised persons away when setting the unit up.

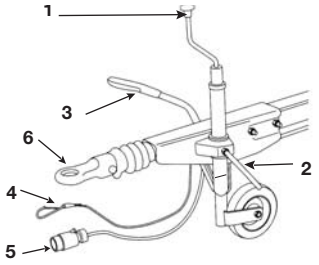
Section 3. Know your Groundhog



Exterior
1. Steel Window Shutter
2. Nosecone
3. Towing Assembly
4. Hydraulic Jacks
5. Axle
6. Wheel
7. Main Entrance
8. Toilet/Washroom Entrance
9. Wet Room Entrance

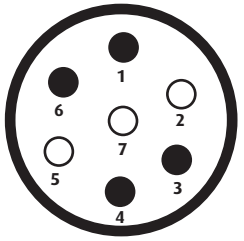


Road Lighting
1. Recessed Lighting Socket
2. Light Board Plug
3. Light Board



Towing Assembly
1. Jockey Wheel
2. Jockey Wheel Securing Handle
3. Parking Brake Lever
4. Breakaway Cable
5. Lighting Cable and Plug
6. Coupling Head

Wiring Cable



Male Pin Female Pin

International Standard Wiring Diagram
for 7 pin plugs and sockets

Terminal	Cable Colour	Application
1 L	Yellow	LH Flasher
2 54G	Blue	Rear Fog
3 3l	White	Earth
4 R	Green	RH Flasher
5 58R	Brown	RH Tail/Wing
6 54	Red	LH and RH Stop
7 58L	Black	LH Tail/Wc

Section 4. Setting up the Groundhog

Positioning
The Groundhog is designed for use on firm level ground which is able to support the weight of the unit and its load. During use, the trailer MUST be uncoupled from the tow vehicle.
Drive the Groundhog to where it will be used and manoeuvre into position. Apply the towing vehicle's parking brake and switch off the engine. Next, apply the Groundhog's parking brake.
Uncouple the Groundhog from the towing vehicle and move the vehicle to a safe location.
Make a thorough inspection of the ground below the Groundhog and remove any foreign objects which may cause problems.
Remove rear lighting board before lowering the Groundhog

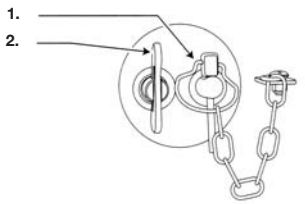
Raising and lowering
The Groundhog is fitted with a swinging axle which allows the shell to be lowered to the ground. The design also means that the wheels are "hidden" under the body of the unit.
Once lowered, the controls and tow hitch are secure under a lockable steel cover.

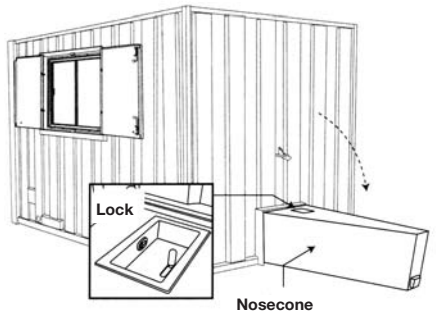
CAUTION
Keep clear of the raised unit at ALL TIMES. NEVER enter the underside of the shell for any reason unless it is being held by suitable supports (correctly rated axle stands for example).
DO NOT use the hydraulic jacks as a means of support. Use them ONLY for changing the unit from road towable to static and vice versa.

Nosecone
Take a firm hold of the security cover to prevent it from swinging down and causing injury. Remove the safety clip and release the antiluce clip, then carefully lower the cover.

1. Nosecone Cover Securing Bolt
2. Nosecone Cover Safety Clip

Once in position, use the key supplied to lock the nosecone lock. If this lock is not secured, the unit could be removed from site without requiring entry.





Section 5. Operating Instructions

Single Axle Manual Hydraulic Operating Instructions

CAUTION

Keep clear of the raised shell at ALL TIMES. NEVER enter the underneath of the shell for any reason unless being held by suitable supports (correctly rated axle stands for example).

DO NOT use the hydraulic jacks as a means of support, use them only when changing the unit from road towable to static and vice versa.

ARRIVAL AT SITE

Move lever (1) on hydraulic pump across (Fig A)

Lower hydraulic rams (3) by pumping handle Fig B)

Keep pumping until road wheels are off the ground (Fig C)

Move spring bolt (4) into open position (Fig D)

Pull black knob (5) into open position (Fig E)

Remove jockey wheel (6 & 7) by turning anti-clockwise, release locking handle, remove jockey wheel, handle and pad (Fig F)

Release handbrake to "Off" position

Fig G shows removed jockey wheel

Move lever (1) on the hydraulic pump across. This will lower unit to the ground

Lower steel shroud over drawbar and lock in closed position

DEPARTURE FROM SITE

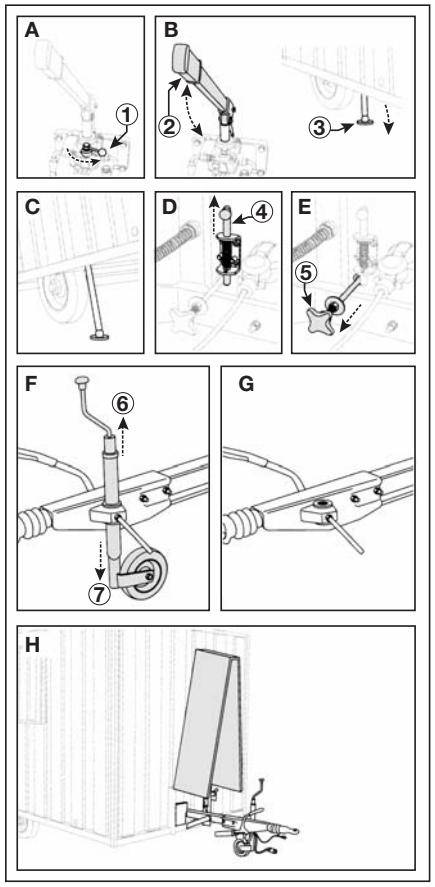
Open shroud and secure in upright position with antiluce locking catch (Fig H)

Pull handbrake to the "ON" position

Move lever (1) across

Pump handle (2) until road wheels are clear of ground

Replace jockey wheel into its clamp with the pad and locking handle rotating jockey wheel handle clockwise to attach lower wheel shaft



Push black knob (5) to lock axle pins

Release spring bolt (4)

Move lever (1) across on pump , lowering the unit onto its wheels, level and supported by jockey wheel

Continue to pump handle (2) to fully raise hydraulic rams

WARNING: THE FURTHER THE VALVE IS MOVED- THE FASTER THE UNIT WILL LOWER.

GP360 Mobile Welfare Unit

Section 5. Operating Instructions

Single Axle Electric Hydraulic Operating Instructions - Lever Controls

CAUTION

Keep clear of the raised shell at ALL TIMES. NEVER enter the underneath of the shell for any reason unless being held by suitable supports (correctly rated axle stands for example).

DO NOT use the hydraulic jacks as a means of support, use them only when changing the unit from road towable to static and vice versa.

ARRIVAL AT SITE

Lower rams by operating the hand lever (1) upwards (Fig A) until road wheels are clear of ground

Move spring bolt (4) into open position (Fig B)

Pull lever (5) into open position (Fig C)

Remove jockey wheel (6 & 7) by turning anti-clockwise, release locking handle, remove jockey wheel, handle and pad (Fig D)

Release handbrake to "Off" position

Fig E shows removed jockey wheel

Move lever down to lower unit to the ground

Lower steel shroud over drawbar and lock in closed position

DEPARTURE FROM SITE

Open shroud and secure in upright position with antiluce locking catch (Fig F)

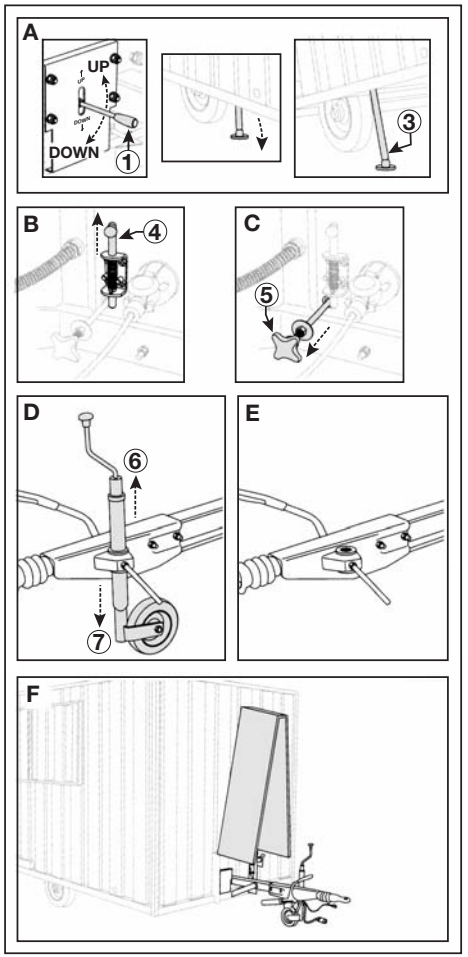
Pull handbrake to the "ON" position

Push lever (1) upwards (Fig A) until road wheels are clear of ground

Replace jockey wheel into its clamp with the pad and locking handle rotating jockey wheel handle clockwise to attach lower wheel shaft

Push lever (5) to lock axle pins

Release spring bolt (4)



Move lever downwards to raise the rams until the unit is level, on its wheels, supported by jockey wheel

Continue to push lever downwards to fully raise hydraulic rams

WARNING: THE FURTHER THE VALVE IS MOVED- THE FASTER THE UNIT WILL LOWER.

Single Axle Electric Hydraulic Operating Instructions - Press Button

CAUTION

Keep clear of the raised shell at ALL TIMES. NEVER enter the underneath of the shell for any reason unless being held by suitable supports (correctly rated axle stands for example).

DO NOT use the hydraulic jacks as a means of support, use them only when changing the unit from road towable to static and vice versa.

ARRIVAL AT SITE

Lower rams by pressing UP button (1) on control box (Fig A) until road wheels are clear of ground

Move spring bolt (4) into open position (Fig B)

Pull lever (5) into open position (Fig C)

Remove jockey wheel (6 & 7), by turning anti-clockwise, release locking handle, remove jockey wheel, handle and pad (Fig D)

Release handbrake to "Off" position

Fig E shows removed jockey wheel

Press DOWN button (2) on control box (Fig A) to lower unit to the ground

Lower steel shroud over drawbar and lock in closed position

DEPARTURE FROM SITE

Open shroud and secure in upright position with antiluce locking catch

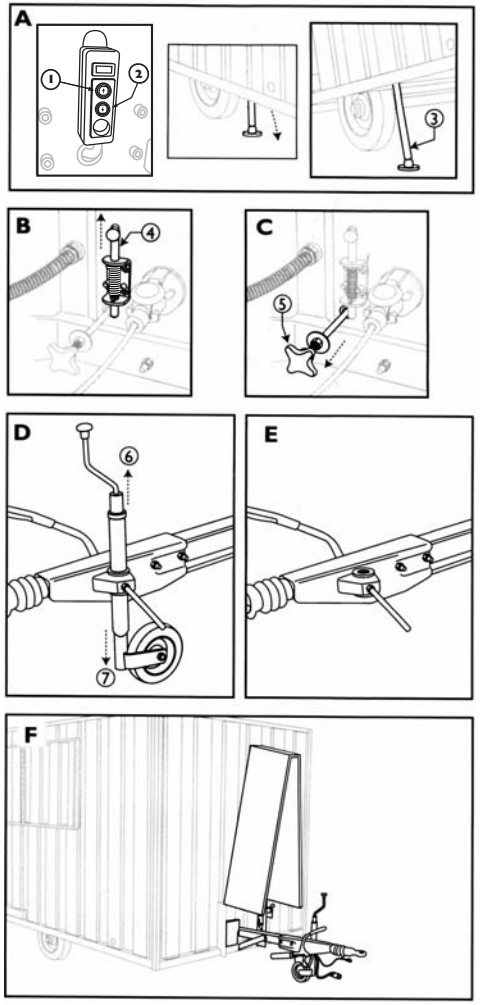
Pull handbrake to the "ON" position

Press UP button until road wheels are clear of ground

Replace jockey wheel into its clamp with the pad and locking handle, rotating jockey wheel handle clockwise to attach lower wheel shaft

Push lever (5) to lock axle pins

Release spring bolt (4)



Press DOWN button (2) to raise the rams until the unit is level, on its wheels, supported by jockey wheel

Continue to press DOWN button to fully raise hydraulic rams

Twin Axle Electric Hydraulic Operating Instructions - GP500 only

CAUTION

Keep clear of the raised shell at ALL TIMES. NEVER enter the underneath of the shell for any reason unless being held by suitable supports (correctly rated axle stands for example).

DO NOT use the hydraulic jacks as a means of support, use them only when changing the unit from road towable to static and vice versa.

ARRIVAL AT SITE

Lower front rams (3) by pressing the offside 'UP' button (1) until front wheels are clear of ground (Fig A).

Remove jockey wheel by turning anti-clockwise, release locking handle, remove jockey wheel, handle and pad (Fig B)

Lower rear rams by pressing the nearside 'UP' button (1) until all wheels are clear of ground (Fig C).

Release handbrake to "Off" position

Move spring bolt (4) into open position (Fig D)

Pull knob (5) fully out to release axle pins (Fig D)

Press the 'Down' buttons (2) alternately (Fig A) to lower unit to the ground

Lower steel shroud over drawbar and lock in closed position (Fig E)

DEPARTURE FROM SITE

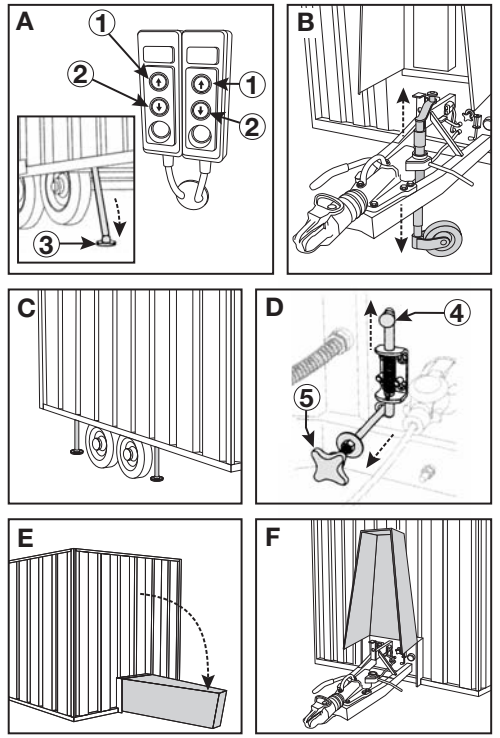
Open shroud and secure in upright position with antiluce locking catch (Fig F)

Raise front rams by Pressing the offside 'UP' button (1), until front wheels are clear of ground

Replace jockey wheel into its clamp with the pad and locking handle, rotating jockey wheel handle clockwise to attach lower wheel shaft

Lower rear rams by pressing the nearside 'Up' button (1) until all wheels are clear of ground

Push in knob (5) to lock axle pin (Fig D)



Release spring bolt (4) (Fig D)

Pull handbrake to the "ON" position

Press the 'Down' buttons (2) alternately until unit sits level on all wheels and is supported by the jockey wheel

Continue to press both 'Down' buttons (Fig A) until hydraulic rams are retracted fully

NOTE:

1. Inside the welfare area below the work-top, is an isolator switch for the 12 volt power supply
2. In the event of a flat battery, 12 volt power cables (supplied) can be connected to the grey plug mounted above the drawbar and an external 12 volt battery.

Section 6. Replacing a punctured wheel

If you suffer a puncture when towing the welfare unit, follow the next set of instructions ONLY if the unit is on level ground and in a position which does not place the operators life at risk

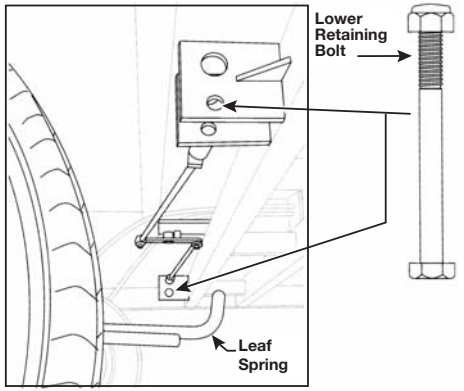
Apply the welfare unit's parking brake and unhitch the unit from the towing vehicle.

Remove both lower retaining bolts from the leaf-spring mounting plate.

Use the hydraulic system to jack the unit up until you are able to gain access to the wheel nuts.

Remove the wheel and replace with a suitable spare wheel. Check that the wheel nuts are correctly tightened.

Now lower the unit back onto its wheels, then replace the two lower retaining bolts.



Section 7. Towing

Towing Restrictions

You are advised that the Groundhog Mobile Welfare Unit should not be towed at speeds greater than 50 mph. The unit is not designed for high speed towing or manooeuvering.

Towing Vehicle Suitability

The towing vehicle must be suitable for towing the Groundhog, which has a gross weight of 1800 kg. (GP360)

Towing Brackets

The towing vehicle must have a properly fitted, good quality towing bracket of the correct specification for the vehicle and be fitted in accordance with the vehicle manufacturers recommendations.

Vehicle Registration Plate

The welfare unit must display an approved style registration "number" plate with the same registration mark of the towing veicle whenever used on the road.

Towing Mirrors

You may require wing mirror extensions if your view is obscured by the welfare unit.

Attaching the Groundhog to the Towing Vehicle

The following instructions are conditional upon the Mobile Welfare Unit being ready to tow.

Position the unit on level ground and apply the parking brake.

Turn the jockey wheel operating handle anti-clockwise to raise the coupling head higher than the vehicle's tow ball.

Manoeuvre the towing vehicle to the unit until the coupling head is directly over the tow ball. Fully apply the handbrake of the towing vehicle and switch its engine off.

Attach the breakaway cable to the ball hitch of the towing vehicle.

Raise and hold the coupling head handle in the raised position.

Now, turn the jockey wheel operating handle clockwise until the coupling head is in place on the ball. Allow the coupling to close on the ball.

Carefully check that the ball is correctly in place.

Fully raise the jockey wheel, then raise and lock the jockey wheel assembly clear of the ground with the wheel facing to the rear. Secure the clamp.

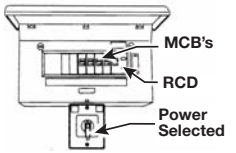
Attach the lighting cable plug to the towing vehicle's socket and check that all the lights are working correctly.

Once the unit is coupled to the towing vehicle, release the welfare unit's handbrake.

GP360 Mobile Welfare Unit

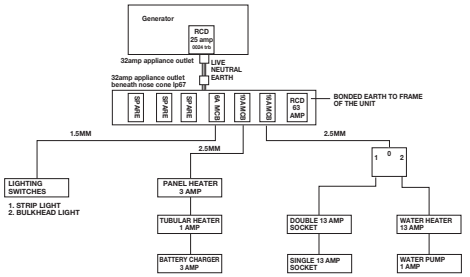
Section 8. Interior

Fuse Box



In the kitchen/rest room there is a consumer unit which controls the power distribution and is fitted with suitably rated MCB's and an RCD.

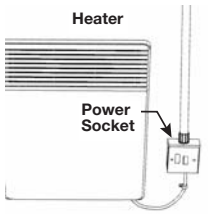
Below the unit is a power selector switch used to select either the power outlet sockets or the hand wash water heater. If the 'Hand Wash' is selected, no power will be available from the power sockets.



Heater

To switch the heater on, simply switch 'ON' at the wall socket.

Wall Heater

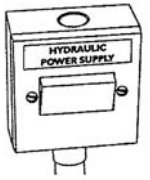


This heater will operate from its own MCB.

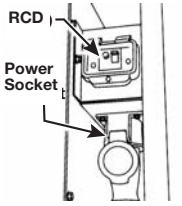
There is no thermostatic heat control fitted to this unit. Simply switch ON or OFF as required.

Hydraulic Power Switch

The hydraulic power supply is controlled by a switch below the heater socket. The switch must be positioned "ON" to allow the electric hydraulics to operate.



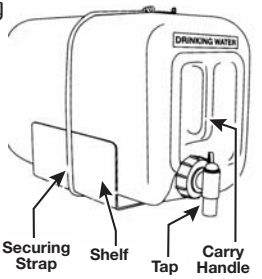
Bench Seats - RCD Control



The seat pads of all three benches can be lifted for removal where cleaning is required. Note, that under the central bench is the power socket and RCD from the built-in petrol generator.

Drinking Water

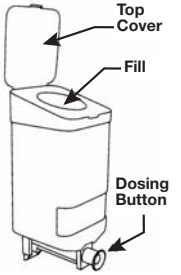
Drinking water should only be taken from the wall mounted 'drinking water' container. This container can be filled from a suitable mains water supply provided the water is fit for human consumption. Alternatively, refill the container with bottled water.



Always secure to its wall mount shelf with the securing strap provided.

DO NOT use the container for any other purpose. If you do, it must be disposed of and a replacement obtained.

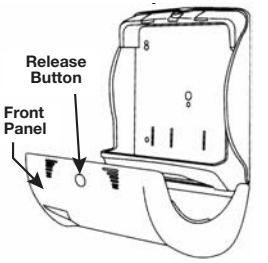
Soap Dispenser



The soap dispenser is suitable for use with most liquid soaps. To refill, raise the top cover, pour in a suitable amount and close the cover.

To obtain soap, press the dosing button with the palm of your hand.

Paper Towel Dispenser



The towel dispenser is designed for use with paper towels. To open, press the release button on the top of the front panel and swing down. Fill the unit with the towels and close the panel ensuring the release button re-engages.

Section 8. Interior - Kitchen/Rest Room

Water Heater & Tap

The heater is instantaneous and has a built-in pump for dispensing warm water. The water used is stored in a 20 litre container beneath the sink. Only fill the container with fresh clean water.

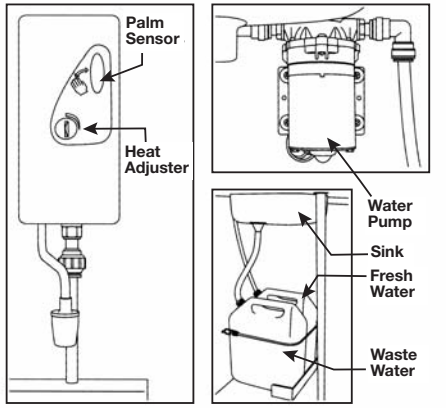
Before operating the tap and heater, first check that the power selector switch situated below the main distribution box is set to the 'hot wash' position. Secondly, check that the fresh water container is full.

To operate the heater, pass your hand close to the panel sensor, the water will begin to flow and be heated.

To adjust the water temperature turn the heat dial clockwise to decrease and anti-clockwise to increase.

When you have finished, pass your hand across the sensor again to switch the unit OFF.

Water Heater Controls - Handwash

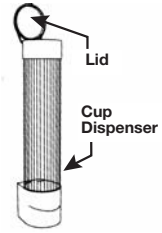


Sink & Waste Water

Waste water from the sink is collected in a container positioned next to the fresh water container. Regularly check the container for content and empty as necessary.

Cup Dispenser

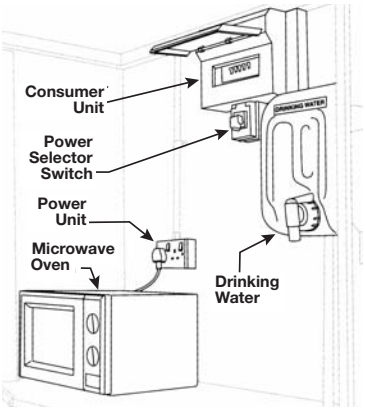
This is a simple holder for disposable cups which is filled from the top and dispensed from the bottom.



MIcrowave Oven

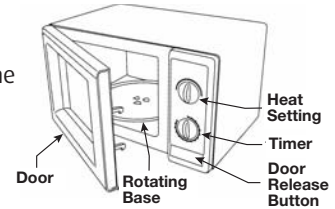
The model of microwave oven will vary and you are advised to use the manufacturers instructions supplied with the Welfare Unit.

However, here is a brief description of the three basic controls.



Timer Dial

Turn the dial clockwise to the time required, a bell will ring when the cooking time is complete.



Heat Setting

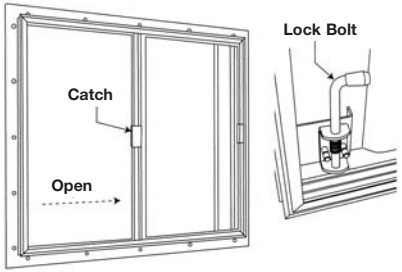
Turn the dial to select the level of cooking

Door release

To open the door and stop the microwave, press the door release button.

Window

The window is protected by steel shutters, which are locked internally and can only be opened from inside the rest room.



To access the shutters, first open the window.

To open the window, release the catch and slide the left hand glasspanel open, release lock bolt to open the steel shutters.

When leaving the welfare unit unattended or when transporting, the steel shutters should be closed and locked.

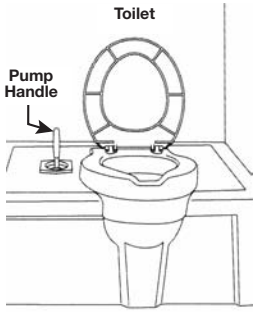
GP360 Mobile Welfare Unit

Section 8. Interior - Toilet

Toilet

The toilet is a self contained unit which uses special fluids for flushing. Filling and emptying the toilet reservoir should be undertaken by a specialist company. Please contact the supplier for further details.

To operate the toilet flush after use, move the pump lever back and forth until the toilet bowl is clear.

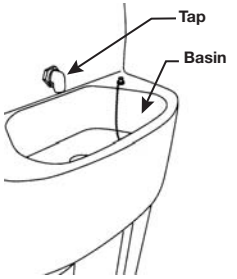


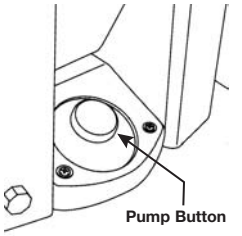
Hand Wash Basin

The basin has its own reservoir of water held within the base pillar. To fill the reservoir, remove the filler plug fitted just below the bowl on the right hand side.

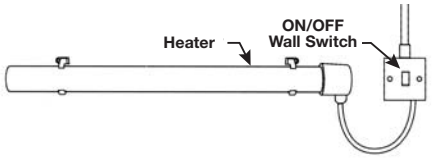
Fill the reservoir with fresh clean water.

The tap is operated by depressing the pump button repeatedly. Waste water is directed into the toilet's reservoir. Note that there is not a facility for hot water.

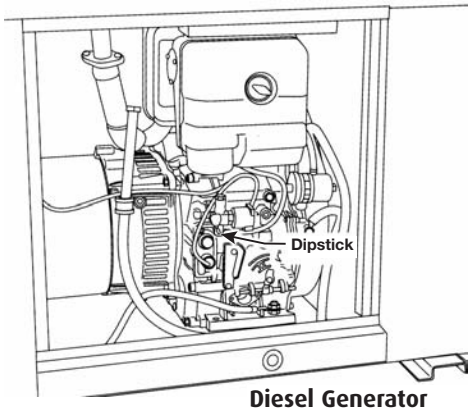




Tubular Heater



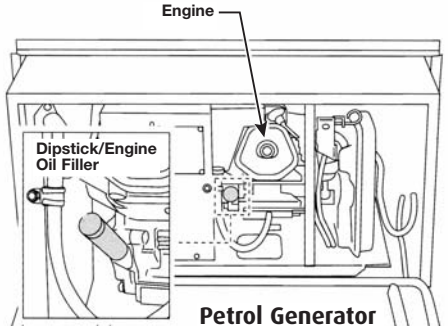
Section 9. Generator



Diesel Generator

The on-board generator is used to power the heating, lighting, hot water and power points. There are three options - petrol, diesel or LPG operated.

The generator is located in the wet room and



Petrol Generator

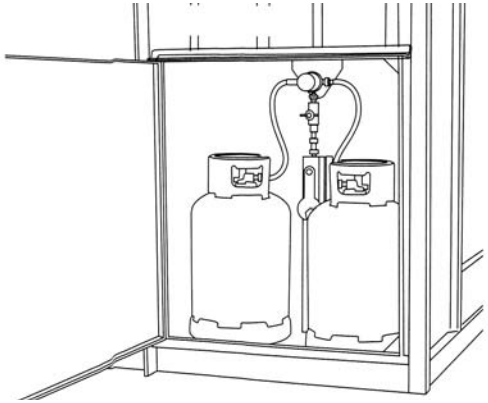
is self contained. The controls for starting and stopping are within the kitchen/rest room.

Before starting the generator, always check the engine oil and fuel levels and top up as necessary.

With the unit level, remove the oil dipstick and check that the level is in line with the maximum marker. Top up as necessary with suitable engine oil then replace the dipstick.

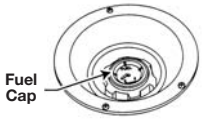
LPG Where Specified

To the front of the welfare unit is a locker which is designed to hold two 19kg propane gas cylinders.

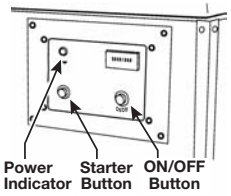


The cylinder must only be connected to the gas supply hose system when being used as a welfare unit. Always disconnect the gas when transporting or when not in use. Secure all gas bottles.

If fitted with a petrol or diesel driven engine, check fuel levels and top up using clean fresh unleaded petrol /diesel. The fuel tank is positioned under the floor of the wet room and its filler cap above.



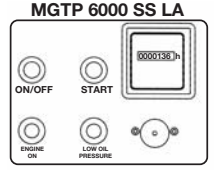
If fitted with an LPG driven engine, check that the LPG cylinder is connected and its valve is open.



To start the engine

The engine is fitted with an electric start and automatic choke/throttle.

Press the ON/OFF button then press and hold the start button until the engine is running.



Once running, allow the engine to warm up for at least 5 minutes before using it to power anything. To stop the engine, simply press the ON/OFF button.

GP360 Mobile Welfare Unit

Section 10. Technical Data

Approximate Weights and Dimensions	
Gross Weight	1780 kg
Length	3.6 m (5.1 m inc. drawbar)
Width	2.3 m
Height (towing)	2.7 m
Height (in service)	2.4 m

Section 11. Warranty

Warranty

Your Groundhog is covered by a 12 month warranty. GenQuip plc undertakes to replace or repair, free of charge, any defect which the company considers to be due to faulty workmanship or material within 12 months of the sale date, except for:

- Defects arising from neglect, misuse or unauthorised modifications.
- Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow transportation, storage, loading or operating instructions.
- Alterations, additions or repairs carried out by persons other than the Manufacturer or their recognised distributors.
- Transportation or shipment costs to and from the Manufacturer or their recognised agents, for repair or assessment against a warranty claim, on any Mobile Welfare Unit or component.
- Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.
- Faults arising from the use of non-standard or additional parts, or any consequential damage or wear caused by the fitting or use of such parts.

Important

Warranty may at the sole discretion of the Manufacturer be void if the scheduled service/inspections are not carried out in accordance with the service manual.

The Manufacturer and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of/or the inability to use the Mobile Welfare Unit for any purpose.

Modifications

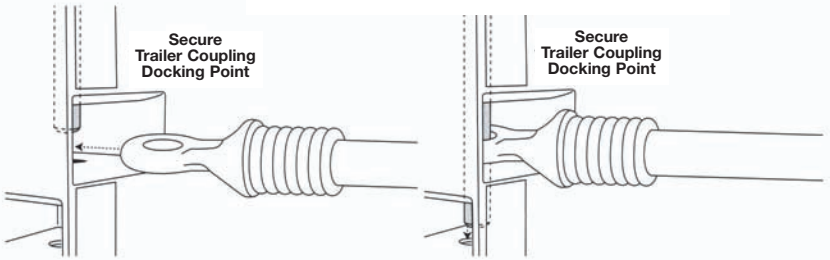
If additional equipment or any third party work, modifications or alterations are to be carried out on the Mobile Welfare Unit which will involve any welding, drilling or any form of cutting or distortion of materials, full written approval must be obtained from the Manufacturer prior to the work being carried out.

Section 12 .Optional Extras

Optional Extras

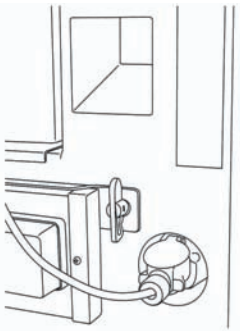
1. Corner Docking Points for Compressors etc
2. Lighting Mast
3. Cable Entry Points
4. Safety Pack
5. Starter Pack

1. Corner Docking Point for Compressors etc.



2. Lighting Mast

3. Cable Entry Point



4. Safety Pack

2kg dry powder fire extinguisher.
1 - 10 person first aid kit.
Health & Safety Poster.
Notice Board.

5. Starter Pack

Charge units:
Drinking Water, toilet, 25mm chemical, 2 toilet rolls, paper towel, liquid soap, 25 ltres fuel.